

Form PTO-1449
(REV. 8-83)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket:
2003080-0054
(SK-893-US)

In re Application No.
09/641,742

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Applicant: Danishefsky *et al.*

Filing Date:
August 18, 2000

Group:
1642

U. S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
KAC	5,683,674	Taylor-Papadimitriou <i>et al.</i>	Nov. 4, 1997	424	1.49
KAC	6,222,020	Taylor-Papadimitriou <i>et al.</i>	April 24, 2001	530	395

U.S. PATENT APPLICATIONS

Examiner's Initials	Serial No.	Applicant	Filing Date		

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No

Examiner's
Initials

**OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages, Etc.)**

KAC	Zhang <i>et al.</i> , "Immune Sera and Monoclonal Antibodies Define Two Configurations for the Sialyl Tn Tumor Antigen", <i>Cancer Res.</i> 1995, 55, 3364-3368.
KAC	Toyokuni <i>et al.</i> , "Synthetic Carbohydrate Vaccines: Synthesis and Immunogenicity of Tn Antigen Conjugates", <i>Bioorg. Med. Chem.</i> 1994, 2, 1119-1132

EXAMINER

John G. Givella

DATE CONSIDERED

10/3/05

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Examiner's Initials:	Serial Number:	Applicant:	Filing Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	International Publication Date	Translation	
				Yes	No
KAC	WO 97/03995	WIPO	February 6, 1997		
KAC	WO 98/46246	WIPO	October 22, 1998		

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Form PTO-1449
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KAC Kuduk *et al.*, "Synthetic and Immunological Studies on Clustered Modes of Mucin-Related Tn and TF O-Linked Antigens: The Preparation of a Glycopeptide-Based Vaccine for Clinical Trials against Prostate Cancer," *J. Am. Chem. Soc.*, 120, 12474-12485, 1998.

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Qiu *et al.*, "Mucin Type Glycopeptides: Synthesis of Core 2, Core 6 and F1- α Building Blocks and Unexpected Reactions," *Tetrahedron Letters*, 38(1), 45-48, 1997.

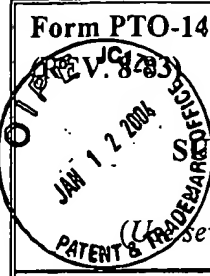
Sames *et al.*, "Convergent Total Synthesis of a Tumor-Associated Mucin Motif," *Nature*, 389, 587-591, 1997.

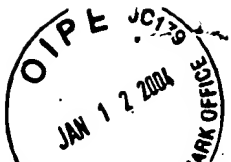
Toyokuni *et al.*, "Synthetic Vaccines: Synthesis of a Dimeric Tn Antigen-Lipopeptide Conjugate that Elicits Immune Responses Against Tn-Expressing Glycoproteins," *J. Am. Chem. Soc.*, 116, 395-396, 1994.

Zhang, *et al.*, "Selection of Tumor Agents as Targets for Immune Attack Using Immunohistochemistry: II. Blood Group Related Antigens," *Int. J. Cancer*, 73, 50-56, 1997.

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<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">  <p>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</p> </div> <div style="text-align: right;"> <p>Applicant: Danishefsky, <i>et al.</i></p> <p>Filing Date: August 18, 2000</p> </div> </div>				Group: 1642		<div style="display: flex; justify-content: space-between;"> <div style="text-align: right;"> <p>RECEIVED JAN 15 2004</p> </div> <div style="text-align: left;"> <p>TECH CENTER</p> </div> </div>	
U.S. PATENT DOCUMENTS							
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass		
KAC	6,090,789	Danishefsky <i>et al.</i>	July 18, 2000	514	25		
KAC	US RE38,046 E	Longenecker <i>et al.</i>	March 25, 2003	424	279.1		
U.S. PATENT PUBLICATIONS							
Examiner's Initials:	Publication Number:	Applicant:	Publication Date:	Class	Subclass		
KAC	US 2002/0006900	Danishefsky <i>et al.</i>	January 17, 2002	514	8		
KAC	US 2002/0038017	Danishefsky <i>et al.</i>	March 28, 2002	536	53		
FOREIGN PATENT DOCUMENTS							
Examiner's Initials	Document No.	Country	International Publication Date	Translation			
				Yes	No		
KAC	WO 99/15201	PCT	April 1, 1999	}	}		
	WO 01/14395 A2	PCT	March 1, 2001				
✓	WO 01/14395 A3	PCT	March 1, 2001				
OTHER DOCUMENTS							
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KAC	Allen <i>et al.</i> , "Pursuit of optimal carbohydrate-based anticancer vaccines: preparation of a multiantigenic unimolecular glycopeptide containing the Tn, MBr1, and Lewis ^x antigens", <i>J. Am. Chem. Soc.</i> , 123:1890-1897, 2001.						
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	Blackwell <i>et al.</i> , "New approaches to olefin cross-metathesis", <i>J. Am. Chem. Soc.</i> , 122:58-71, 2000.						
✓	Bosse <i>et al.</i> , "Linear synthesis of the tumor-associated carbohydrate antigens Globo-H, SSEA-3, and Gb3", <i>J. Org. Chem.</i> , 67:6659-6670, 2002.						



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		Filing Date: August 18, 2000	Group: 1642
KAC	Keding <i>et al.</i> , "Hydroxynorleucine as a glycosyl acceptor is an efficient means for introducing amino acid functionality into complex carbohydrates", <i>Tetrahedron Letters</i> , 44:3413-3416, 2003.		
	Kim <i>et al.</i> , "Effect of immunological adjuvant combinations on the antibody and T-cell response to vaccination with MUC1-KLH and GD3-KLH conjugates", <i>Vaccine</i> , 19:530-537, 2001.		
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	Ragupathi <i>et al.</i> , "A Fully synthetic Globo H carbohydrate vaccine induces a focused humoral response in prostate cancer patients: a proof of principle", <i>Angew. Chem. Int. Ed.</i> , 38(4):563-566, 1999.		
	Ragupathi <i>et al.</i> , "On the power of chemical synthesis: Immunological evaluation of models for multiantigenic carbohydrate-based cancer vaccines", <i>Proc. Natl. Acad. Sci. USA</i> , 99(21):13699-13704, 2002.		
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	Williams <i>et al.</i> , "In pursuit of an anticancer vaccine: a monomolecular construct containing multiple carbohydrate antigens", <i>Tetrahedron Letters</i> , 41:9505-9508, 2000.		
	Database BIOSIS'Online! Biosciences Information Service, Philadelphia, PA, US; 22 March 2002, Kovbasnjuk Olga <i>et al.</i> , "Glycosphingolipid Gb ₃ as biomarker for invasive colon carcinoma cells", <i>FASEB Journal</i> , 16(5):A1200, 2002, Annual Meeting of Professional Research Scientists on Experimental Biology; New Orleans, LA, USA, April 20-24, 2002.		
✓	International Search Report issued for PCT application PCT/US03/22657		
EXAMINER <i>William D. Canullo</i>		DATE CONSIDERED 10/3/05	
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U. S. PATENT DOCUMENTS

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KAC	5,683,674	Taylor-Papadimitriou <i>et al.</i>	Nov. 4, 1997	424	1.49
KAC	6,222,020	Taylor-Papadimitriou <i>et al.</i>	April 24, 2001	530	395

U.S. PATENT APPLICATIONS

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KAC	Toyokuni <i>et al.</i> , "Synthetic Carbohydrate Vaccines: Synthesis and Immunogenicity of Tn Antigen Conjugates", <i>Bioorg. Med. Chem.</i> 1994, 2, 1119-1132

EXAMINER <i>Karen J. Canella</i>	DATE CONSIDERED 10/3/05
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U. S. PATENT DOCUMENTS					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
KAC	5,053,489	Kufe <i>et al.</i>	10/1/91	530	350
	5,625,030	Williams <i>et al.</i>	4/29/97	528	361
	5,798,090	Longnecker <i>et al.</i>	8/25/98	424	279.1
	5,858,994	Kretzschmar <i>et al.</i>	01/12/99	514	62
	5,807,559	Jondal <i>et al.</i>	9/15/98	424	278.1
	5,871,990	Clausen <i>et al.</i>	2/16/99	435	193
	6,013,779	Wong <i>et al.</i>	1/11/00	536	18.6
✓	6,238,668	Danishefsky <i>et al.</i>	5/29/01	424	184.1
U.S. PATENT APPLICATIONS					
Examiner's Initials	Serial No.	Applicant	Filing Date		
KAC	* 08/457,485	Taylor-Papadimitriou <i>et al.</i>	June 1, 1995		
EXAMINER <i>Karen G. Canella</i>			DATE CONSIDERED <i>10/3/05</i>		
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Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
KAC	EP 341252	EP	11/19/97		
KAC	WO 01/14395	PCT	03/01/01		

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KAC	Bilodeau M.T., "Total Synthesis of a Human Breast Tumor Associated Antigen", <i>J. Am. Chem. Soc.</i> , 117:7840-7841, 1995.
	Boehm T. <i>et al.</i> , "Development of a Novel Silyl Ether Linker for Solid-Phase Organic Synthesis" <i>J. Org. Chem.</i> , 61:6498-6499, 1996.
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	Randolph J.T. <i>et al.</i> , "An Interactive Strategy for the Assembly of Complex, Branched Oligosaccharide Domains on a Solid Support: A Concise Synthesis of the Lewis ^b Domain in Bioconjugatable Form", <i>Angew. Chem. Int. Ed. Engl.</i> , 33(14):1470-1473, 1994.
✓	* Yura <i>et al.</i> , "Preparation of oligosaccharide-linked polystyrene and method for immobilization of lectin and base materials for cells", abstract, Jpn. Kokai Tokkyo Koho (Japan), 03 December 1996.

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* Cited document is not at present available to the undersigned, or is available in the file of a prior related application relied upon for an earlier filing date under 35 U.S.C. § 120.